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INSPECTION REPORT  
FOR  
AMOCO OIL COMPANY  
RIVERFRONT-LEVEE GATE, IL. RTE. 3  
ILD980503221  
R05-8505-06

March 26, 1986

291035  
EPA Region 5 Records Ctr.  


## **SITE INSPECTION MEMO**

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**1**

## **2070 - 13 FORM**

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**2**

## **SITE MAPS**

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**3**

## **SITE PHOTOGRAPHS**

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**4**



# ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

International Specialists in the Environment

## MEMORANDUM

DATE: March 26, 1986  
TO: File  
FROM: Ronald Bock  
SUBJECT: Illinois/R05-8505-06/IL0407  
Wood River/Amoco Oil Company Riverfront/Levee  
Gate IL. Rte. 3  
ILD980503221

The Amoco Oil Company Riverfront disposal site in Wood River, Madison County, Illinois is an area which has been used for various waste disposal practices from 1908-1980. The site is bordered on the west by the Mississippi River and to the east by the main levee. The total area of the site is approximately 127 acres. The site was first brought to the attention of the U.S. EPA by the Illinois EPA (IEPA) in the form of a Potential Hazardous Waste Site Preliminary Assessment. The site was then subsequently assigned to FIT for a Site Inspection.

The Amoco Riverfront site was one of three waste disposal sites on the Amoco property in Wood River, IL. to be inspected by FIT personnel. The other sites were Amoco Main Office-WWTP and Amoco Refinery (Main Plant). Since these sites are so closely related, any subsequent review of ths report should be done in a conjunction with the other two reports.

On March 4, 1986, FIT visited the Amoco Petroleum Additives Company in Wood River, IL. to perform the Site Inspection. This inspection consisted of an interview with Amoco representatives, followed by a visual reconnaissance of all reported waste disposal areas.

Amoco Riverfront disposal site consists of several separate disposal areas west of the main levee which are not regulated under RCRA, including a closed 26-acre landfill, the Red Oil Disposal Area (RODA), and Lagoons 6-8, which were formerly part of the Waste Water Treatment system and now serve as surge ponds for secondary WWTP which went on-line in 1977. Amoco was able to supply FIT with several reports prepared by consultants which described the affected areas in detail.

The 26-acre landfill was used as a hazardous waste landfill by Amoco from 1908-1980. Amoco reports disposing of approximately 10-15 million cubic feet of waste in ths landfill during this time. Following a complete subsurface investigation of the site by Environmental Engineering, Inc., the landfill was closed. The landfill was capped with two feet of clay, and a 30-35 ft. clay slurry wall, approximately 30 in. thick, was installed in 1982 to prevent the migration of contaminants outside the landfill boundaries. A groundwater monitoring program was initiated by Amoco, and sampling of both the shallow and deep aquifers shows contamination from volatile organics, semi-volatile organics, and some heavy metals.

The R.O.D.A. was used as a surface impoundment for wastes by Amoco from 1973 -1978. According to site representatives, the primary wastes present in this area are filter clays and spent aluminum chloride catalyst. According to a report prepared by Mathes, borings from the area did not show the presence of any red oil. However, this can probably be explained due to repeated flooding of site which had occurred between the last disposal date and the time sampling was done. No priority pollutant analysis of either soils or groundwater has been performed here. No estimate of waste quantity could be given.

Lagoons 6-8, which were formerly part of the WWT system for Amoco, have not been investigated in depth. The report prepared by Mathes refers to sampling one boring from Lagoon 8 for RCRA Hazardous Waste Tests, which were negative. Both the types and amounts of wastes which could be present in these lagoons are unknown.

The Amoco Riverfront Disposal area is situated on the floodplain of the Mississippi River. Since it lies between the levee and the river, flooding is a likely occurrence. Also, the site overlays two shallow sand aquifers which are hydrogeologically connected to the Mississippi River. Boring show these aquifers to be separated by a clay layer, approximately 5-20 ft. thick. However, whether this clay layer is continuous over the entire area or if its thickness is enough to protect the lower aquifer is uncertain. This lower aquifer is used extensively by the surrounding population. Five communities (Hartford, Wood River, East Alton, Roxanna, and Bethalto) all have municipal wells located within two miles of the site. Also, because of heavy use of the sand aquifer by both industries and municipalities, it appears that groundwater flow may be reversed from normally discharging into the river to actually being recharged by it. Thus, depending on the effectiveness of the containment of wastes and the actual direction of groundwater flow, the potential exists for the surrounding population to be adversely effected by contamination of the groundwater supply.

87C:4X

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POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD9805C3221

II. SITE NAME AND LOCATION

01 SITE NAME (or other common or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER		
AMOCO Oil Company Riverfront / Levee Gate Rte 3	IL Rte 3		
03 CITY Wood River	04 STATE IL	05 ZIP CODE 60295	06 COUNTY Madison
08 COORDINATES LATITUDE 38° 50' 05"	LONGITUDE 90° 06' 09"	10 TYPE OF OWNERSHIP (check one) <input type="checkbox"/> A PRIVATE <input type="checkbox"/> B FEDERAL <input type="checkbox"/> C STATE <input type="checkbox"/> D COUNTY <input type="checkbox"/> E MUNICIPAL <input type="checkbox"/> F OTHER <input type="checkbox"/> G UNKNOWN	

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 03, 04 86 MONTH DAY YEAR	02 SITE STATUS <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE	03 YEARS OF OPERATION 1908 - 1980 BEGINNING YEAR ENDING YEAR	UNKNOWN
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04 AGENCY PERFORMING INSPECTION (check all that apply)	<input type="checkbox"/> A EPA <input type="checkbox"/> B EPA CONTRACTOR Ecology and Environment, Inc. (Name of firm)	<input type="checkbox"/> C MUNICIPAL <input type="checkbox"/> D MUNICIPAL CONTRACTOR (Name of firm)
<input type="checkbox"/> E STATE <input type="checkbox"/> F STATE CONTRACTOR (Name of firm)	<input type="checkbox"/> G OTHER (Name of firm)	

05 CHIEF INSPECTOR Ronald Bock	06 TITLE Chemical Engineer / FIT	07 ORGANIZATION E+E	08 TELEPHONE NO (312) 663-9415
09 OTHER INSPECTORS David Curnock	10 TITLE Agronomist-Biologist / FIT	11 ORGANIZATION E+E	12 TELEPHONE NO (312) 663-9415
			( )
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED Gregory J. Wurtz	14 TITLE Environmental Consultant	15 ADDRESS AMOCO Oil Company 200 East Randolph Drive Chicago, IL 60601	16 TELEPHONE NO (312) 856-5858
Richard A. Sumner	Environmental Engineer	AMOCO Petroleum Additives Company 301 Evans Ave. PO Box 182 Wood River, IL 62095	(618) 251-2228
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (check one) <input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	18 TIME OF INSPECTION 9:00 A.M.	19 WEATHER CONDITIONS overcast, 40°F
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IV. INFORMATION AVAILABLE FROM

01 CONTACT Kenneth Mensing	02 OFFICE/HOME/ORGANIZATION IEPA - Collinsville / Southern Region			03 TELEPHONE NO. (618) 345-4606
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM Ronald Bock	05 AGENCY —	06 ORGANIZATION E+E / FIT	07 TELEPHONE NO. (312) 663-9415	08 DATE 3/26/86 MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 2 - WASTE INFORMATION

## I. IDENTIFICATION

01 STATE IL	02 SITE NUMBER ILD980503221
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## II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check if applicable)		02 WASTE QUANTITY AT SITE <small>(Measures of waste quantities must be independent.)</small>	03 WASTE CHARACTERISTICS (Check if applicable)
<input checked="" type="checkbox"/> A SOLID <input type="checkbox"/> B POWDER, FINES <input type="checkbox"/> C SLUDGE <input type="checkbox"/> D OTHER	<input type="checkbox"/> E SLURRY <input checked="" type="checkbox"/> F LIQUID <input type="checkbox"/> G GAS	TONS _____ CUBIC YARDS _____ FOOT _____ NO OF DRUMS _____ <small>15,000.</small>	<input checked="" type="checkbox"/> A TOXIC <input checked="" type="checkbox"/> B CORROSIVE <input type="checkbox"/> C RADIOACTIVE <input checked="" type="checkbox"/> D PERSISTENT <input type="checkbox"/> E SOLUBLE <input type="checkbox"/> F INFECTIOUS <input checked="" type="checkbox"/> G FLAMMABLE <input type="checkbox"/> H IGNITABLE <input type="checkbox"/> I HIGHLY VOLATILE <input type="checkbox"/> J EXPLOSIVE <input type="checkbox"/> K REACTIVE <input type="checkbox"/> L INCOMPATIBLE <input type="checkbox"/> M. NOT APPLICABLE

## III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

## IV. HAZARDOUS SUBSTANCES (See Appendix for full identification and CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

1. 26-acre closed landfill - Primary wastes disposed include filter clays, water softener sludges, catalyst fines, API separator sludges, cinders, flyash, caustic wastes, sodium polysulfides. Sampling of the ground water for priority pollutants showed the following compounds to be present, arsenic, chromium, mercury, barium, benzene, toluene, xylenes, ethylbenzene, methyl ethyl ketone, 1,1 dichloroethane, 1,1 dichloroethene, carbon tetrachloride, 1,1,1 trichloroethane, phenol, naphthalene and acenaphthene.
2. RODA - Primary waste disposed here is spent AlCl<sub>3</sub> catalyst from butene polymerization process. Sampling of borings showed no red oil waste to be present. There has been no priority pollutant sampling.
3. Lagoons 6-8 - Primarily WWT sludges. One sample from the only boring in Lagoon 8 showed no RCRA contamination. There has been no priority pollutant sampling.

Waste types and quantities were determined from the site inspection interview and various reports supplied to FIT by AMOCO representatives. Refer to Section 1 - COVER MEMO and Section 3 - MAPS for additional information and the location of these wastes.

## V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

## VI. SOURCES OF INFORMATION (See specific references e.g. state files, sample analysis, reports)

Site Inspection Interview with Wurtz, Sumner, 3-4-86  
Test Results - DISPOSAL SITE CLOSURE - River Front Disposal Site, Annex C.I.C. Project No. 80-022 by CANONIE/ U'ARECOLIA, January 1981.  
Subsurface Investigation and Report on the Riverfront Disposal Site, Wood River, Illinois; for Amoco Chemicals; by James Douglas Andrews, PE, Environmental Engineering, INC. October 1980  
Ground Water Monitoring Results, Closed Riverfront Disposal Area; June, August, and November, 1985.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE IL	02 SITE NUMBER ILD980503221

II. HAZARDOUS CONDITIONS AND INCIDENTS

01  A GROUNDWATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED ~35,000

02  OBSERVED (DATE 1981-85)

04 NARRATIVE DESCRIPTION

POTENTIAL

ALLEGED

Sampling done by AMOCO shows contamination to the ground water of various metals, volatile organics, and semi-volatile organics. The site overlays a sandy layer connected to the Mississippi River which is a major aquifer for the area. AMOCO monitors both this deeper aquifer of concern and a more shallow "perched" water table. A clay/silty clay layer appears to separate these aquifers.

01  B SURFACE WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED 0

02  OBSERVED (DATE \_\_\_\_\_)

04 NARRATIVE DESCRIPTION

POTENTIAL

ALLEGED

The site lies between the main levee and the Mississippi River, in the 100 year floodplain. Flooding of the disposal areas occurred last in 1973.

01  C CONTAMINATION OF AIR

03 POPULATION POTENTIALLY AFFECTED 0

02  OBSERVED (DATE \_\_\_\_\_)

04 NARRATIVE DESCRIPTION

POTENTIAL

ALLEGED

None observed or detected

01  D FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED 0

02  OBSERVED (DATE \_\_\_\_\_)

04 NARRATIVE DESCRIPTION

POTENTIAL

ALLEGED

The wastes disposed of at Amoco-Riverfront disposal site pose no fire/explosive threats.

01  E DIRECT CONTACT

03 POPULATION POTENTIALLY AFFECTED 0

02  OBSERVED (DATE \_\_\_\_\_)

04 NARRATIVE DESCRIPTION

POTENTIAL

ALLEGED

Access to the Riverfront disposal area is through Levee Gate - Rte 3 which is guarded. Amoco personnel patrol area.

01  F. CONTAMINATION OF SOIL

03 AREA POTENTIALLY AFFECTED ~40

02  OBSERVED (DATE 1980-81)

04 NARRATIVE DESCRIPTION

POTENTIAL

ALLEGED

Borings from both the closed 26-acre landfill and the Red Oil Disposal area (3-4 acres) show contaminated soils. The sediments in Lagoons 6-8 are likely to be contaminated

01  G DRINKING WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED ~35,000

02  OBSERVED (DATE \_\_\_\_\_)

04 NARRATIVE DESCRIPTION

POTENTIAL

ALLEGED

See Section A. The municipal wells for the communities of Bethalto, East Alton + Roxanna all are within 2-miles from the site. The 5-municipal wells for Wood River lie less than 1-mile from site.

01  H. WORKER EXPOSURE/INJURY

03 WORKERS POTENTIALLY AFFECTED 0

02  OBSERVED (DATE \_\_\_\_\_)

04 NARRATIVE DESCRIPTION

POTENTIAL

ALLEGED

No worker exposure/injury due to contact with hazardous waste has been reported or documented.

01  I. POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED 0

02  OBSERVED (DATE \_\_\_\_\_)

04 NARRATIVE DESCRIPTION

POTENTIAL

ALLEGED

None. Waste disposal areas aren't accessible to general public.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980503221

II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01  J. DAMAGE TO FLORA      02  OBSERVED (DATE \_\_\_\_\_)       POTENTIAL       ALLEGED  
04 NARRATIVE DESCRIPTION

None documented or observed.

01  K. DAMAGE TO FAUNA      02  OBSERVED (DATE \_\_\_\_\_)       POTENTIAL       ALLEGED  
04 NARRATIVE DESCRIPTION (Include names of species)  
Likelihood of flooding of Riverfront disposal area could cause damage to aquatic life in Mississippi River.

01  L. CONTAMINATION OF FOOD CHAIN      02  OBSERVED (DATE \_\_\_\_\_)       POTENTIAL       ALLEGED  
04 NARRATIVE DESCRIPTION

See Section K.

01  M. UNSTABLE CONTAINMENT OF WASTES  
(Select from Standardized Contaminants)  
03 POPULATION POTENTIALLY AFFECTED > 35,000      04 NARRATIVE DESCRIPTION  
Flooding of area last occurred in 1973. At 12, groundwater beneath site is contaminated with various  
mt. b. volatile organics, and semi-volatile organics.

01  N. DAMAGE TO OFF-SITE PROPERTY      02  OBSERVED (DATE \_\_\_\_\_)       POTENTIAL       ALLEGED  
04 NARRATIVE DESCRIPTION

None documented or observed.

01  O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs      02  OBSERVED (DATE \_\_\_\_\_)       POTENTIAL       ALLEGED  
04 NARRATIVE DESCRIPTION  
None. Wood River WWTP was formerly owned/operated by AMOCO Oil Company. The WWTP has received an approved, certified final closure (RCRA) from IEPA.

01  P. ILLEGAL/UNAUTHORIZED DUMPING      02  OBSERVED (DATE \_\_\_\_\_)       POTENTIAL       ALLEGED  
04 NARRATIVE DESCRIPTION

None documented or observed

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

NONE.

III. TOTAL POPULATION POTENTIALLY AFFECTED: ~ 35,000

IV. COMMENTS

Site is also comprised on Lagoons 1-5, which are RCRA regulated since they were used to store DAF float from WWTP. Amoco is presently preparing Lagoon #5 to receive stabilized & solidified (CHEM-FIX) sludges from Lagoons 1-4. These sludges will be encapsulated with clay and HDPE barrier. Also, a leachate collection system will be in place. Amoco hopes to start this CHEM-FIX project by June 1986.

V. SOURCES OF INFORMATION (Check specific references e.g., state files, sample analysis reports)

Groundwater withdrawal from Aquifer in Illinois with emphasis on FWS Well. IEPA/OLPC, 1981  
Subsurface Investigation and Report on the Riverfront Disposal Site, Wood River, Illinois, for Amoco Chemicals, by James Douglas Andrews, P.E. Environmental Engineering, Inc.; October 1980.  
Engineering Investigations, Wood River Refinery Sites, Wood River, Illinois, 7-51-81, by John Mathes & Associates, Inc.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION  
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980503221

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED <small>(Check one or more)</small>	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES	IL0000035	9-27-85	8-1-90	FOR EMERGENCY DISCHARGE ONLY FROM LAGOON 8.
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR	Total of 14 Permits			For APAC
<input type="checkbox"/> D. RCRA				
<input checked="" type="checkbox"/> E. RCRA INTERIM STATUS				See comments below
<input type="checkbox"/> F. SPCC PLAN				
<input checked="" type="checkbox"/> G. STATE <small>(Specify)</small>				See comments below
<input type="checkbox"/> H. LOCAL <small>(Specify)</small>				
<input type="checkbox"/> I. OTHER <small>(Specify)</small>				
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL AREA <small>(Check one or more)</small>	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT/STABILIZATION	05 OTHER
<input checked="" type="checkbox"/> A. SURFACE IMPOUNDMENT	unk	(R.O.D.A.)	N/A	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES				
<input type="checkbox"/> C. DRUMS, ABOVE GROUND				
<input type="checkbox"/> D. TANK, ABOVE GROUND				
<input type="checkbox"/> E. TANK BELOW GROUND				
<input checked="" type="checkbox"/> F. LANDFILL	15 MILLION CUBIC FEET			
<input type="checkbox"/> G. LANDFARM				
<input type="checkbox"/> H. OPEN DUMP				
<input type="checkbox"/> I. OTHER <small>(Specify)</small>	LAGOONS 6-8.	unk.		1/2 ACRE OF SITE

07 COMMENTS

1. The closed 26-acre landfill accepted wastes from as early as 1908 - 1980. The landfill is closed, capped with 2 ft. clay, and surrounded by a 30-35 ft. (depth) slurry wall to prevent migration of wastes.
2. The Red Oil Disposal Area (R.O.D.A.) comprises about 3-4 acres on NW part of Riverfront property. Wastes, primarily spent AlCl<sub>3</sub> catalyst, were disposed here from 1973-1978.
3. Lagoons 6-8 most likely contain WWTP sludges. Prior to 1977, these lagoons (1-8) served as the waste water treatment for AMOCO Oil Refinery.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES <small>(Check one)</small>	<input type="checkbox"/> A. ADEQUATE, SECURE	<input type="checkbox"/> B. MODERATE	<input checked="" type="checkbox"/> C. INADEQUATE, POOR	<input type="checkbox"/> D. INSECURE, UNSOUND, DANGEROUS
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02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC

Although 26-acre landfill has been adequately closed, the fact remains that past disposal practices have contaminated the groundwater which lies in sandy aquifer beneath site.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE:  YES  NO

02 COMMENTS Access to Riverfront disposal area is through Levee Gate / Private Road which is guarded. The general public does not have access.

VI. SOURCES OF INFORMATION (Check specific references, e.g. state files, sample analysis, reports)

Site Inspection Interview with Wurtz, Sumner, 3-4-86.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	TLD980503221

II. DRINKING WATER SUPPLY

D1 TYPE OF DRINKING SUPPLY (Check one applicable)		D2 STATUS			D3 DISTANCE TO SITE	
SURFACE	WELL	ENDANGERED	AFFECTED	MONITORED	A	B
COMMUNITY	A. <input type="checkbox"/> B. <input checked="" type="checkbox"/>	A E	B C	C D	<input type="checkbox"/> <1	(mi)
NON-COMMUNITY	C. <input type="checkbox"/> D. <input checked="" type="checkbox"/>	D E	E C	F G	<input type="checkbox"/> 1.5	(mi)

III. GROUNDWATER

D1 GROUNDWATER USE IN VICINITY (Check one)

- A ONLY SOURCE FOR DRINKING     B DRINKING  
(Other sources available)  
COMMERCIAL INDUSTRIAL IRRIGATION  
(No other water source available)
- C COMMERCIAL INDUSTRIAL IRRIGATION     D NOT USED/UNUSEABLE  
(No other water source available)

D2 POPULATION SERVED BY GROUND WATER	$\sim 35,000$	D3 DISTANCE TO NEAREST DRINKING WATER WELL	<1	(mi)
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D4 DEPTH TO GROUNDWATER	D5 DIRECTION OF GROUNDWATER FLOW	D6 DEPTH TO AQUIFER OF CONCERN	D7 POTENTIAL YIELD OF AQUIFER	D8 SOLE SOURCE AQUIFER
10-15 (m)	Shallow aquifer - SSW deeper aquifer - NE	25-50 m	500 gpm <small>ft/min</small>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

D9 DESCRIPTION OF WELLS (Including usage, depth, and location relative to occurrence and surface).  
Communities of Bath, IL, East Alton, Roxana + Wood River all have municipal wells located within the 3-mile radius. These wells draw from Sand and gravel aquifer in the American Bottoms. The depths of the municipal wells range from 75-125 ft. Extensive use of groundwater by industries and municipalities has lowered water levels significantly, thus changing ground water flow from the river into the aquifer by inducing infiltration.

D10 RECHARGE AREA	D11 DISCHARGE AREA
<input checked="" type="checkbox"/> YES    COMMENTS See comments above <input type="checkbox"/> NO	<input type="checkbox"/> YES    COMMENTS See comments above <input type="checkbox"/> NO

IV. SURFACE WATER

D1 SURFACE WATER USE (Check one)

- A. RESERVOIR, RECREATION DRINKING WATER SOURCE     B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES     C. COMMERCIAL INDUSTRIAL     D. NOT CURRENTLY USED

D2 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Mississippi River	<input type="checkbox"/>	adjacent
	<input type="checkbox"/>	(mi)
	<input type="checkbox"/>	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

D1 TOTAL POPULATION WITHIN			D2 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE A. 500 NO OF PERSONS	TWO (2) MILES OF SITE B. 12,000 NO OF PERSONS	THREE (3) MILES OF SITE C. 20,000 NO OF PERSONS	
			0.25 (mi)

D3 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

3150

D4 DISTANCE TO NEAREST OFF-SITE BUILDING

0.25 (mi)

D5 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population, other points of site, e.g., plus usage of site, occupied/under construction).

Site is located in industrialized area of Wood River, IL. There are several other refineries located near Alton. To the west is the Mississippi River. The area south of site is not populated. The towns of Hartford, Roxana, Bethalto, East Alton + Wood River border site on the east, northeast.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980503221

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

- A  $10^{-6} - 10^{-8}$  cm/sec    B.  $10^{-4} - 10^{-6}$  cm/sec    C.  $10^{-4} - 10^{-3}$  cm/sec    D. GREATER THAN  $10^{-3}$  cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

- A. IMPERMEABLE  
(less than  $10^{-6}$  cm/sec)    B. RELATIVELY IMPERMEABLE  
( $10^{-4} - 10^{-6}$  cm/sec)    C. RELATIVELY PERMEABLE  
( $10^{-2} - 10^{-4}$  cm/sec)    D. VERY PERMEABLE  
(Greater than  $10^{-2}$  cm/sec)

03 DEPTH TO BEDROCK

~125  
(m)

04 DEPTH OF CONTAMINATED SOIL ZONE

20  
(m)

05 SOIL pH

unk

06 NET PRECIPITATION

2.0"  
(in)

07 ONE YEAR 24 HOUR RAINFALL

2.5  
(in)

08 SLOPE

SITE SLOPE

0-3

\* DIRECTION OF SITE SLOPE

SSW

TERRAIN AVERAGE SLOPE

0-3

10 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

10

SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA

FIVERINE FLOODWAY

11 DISTANCE TO WETLANDS

ESTUARINE  
N/A  
A \_\_\_\_\_ (mi)  
B \_\_\_\_\_ (mi)

OTHER  
N/A

12 DISTANCE TO CRITICAL HABITAT

ENDANGERED SPECIES

< 3  
(mi)

BALD EAGLE

13 LAND USE IN VICINITY

DISTANCE TO

COMMERCIAL INDUSTRIAL

RESIDENTIAL AREAS, NATIONAL STATE PARKS,  
FORESTS, OR WILDLIFE RESERVES

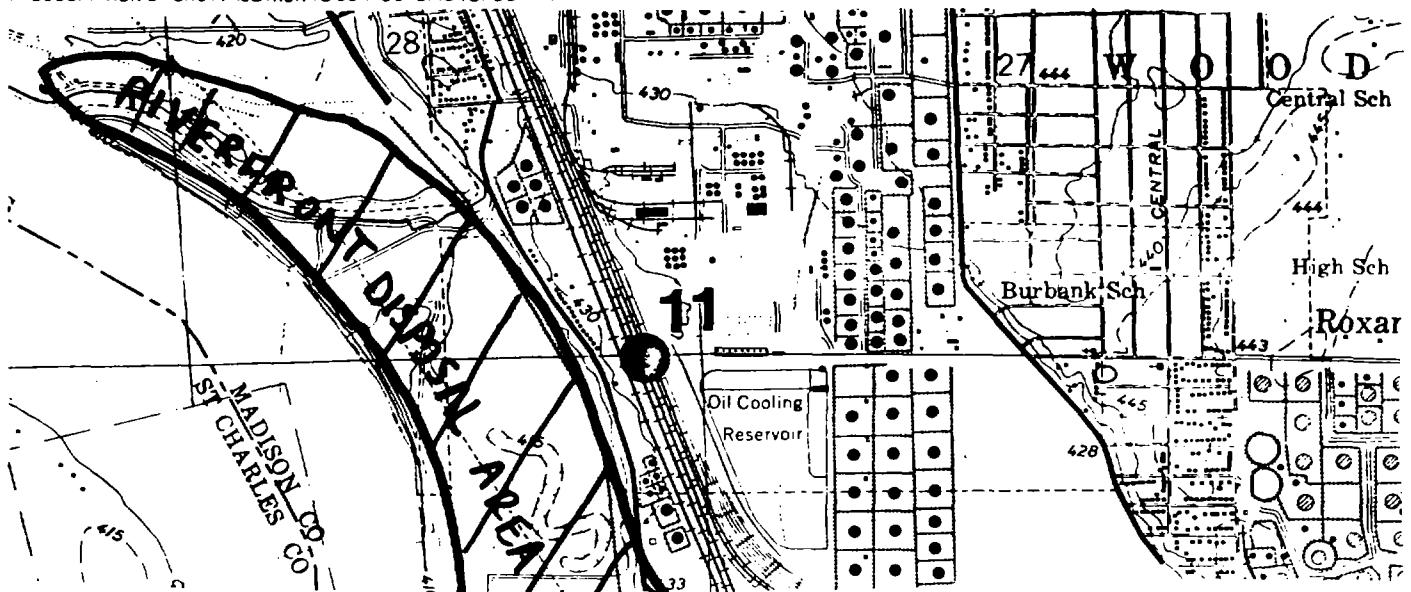
AGRICULTURAL LANDS  
FARM AG LAND AG LAND

A. 0.25  
(mi)

B. 0.25  
(mi)

C. \_\_\_\_\_ (mi) D. 2.0  
(mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY



VII. SOURCES OF INFORMATION (Give specific references, e.g., State files, sample analysis, reports)

U.S.G.S. Topographic Map, 7.5" Series, Wood River Quadrangle  
Groundwater Withdrawals from Aquifers in Illinois with Emphasis on PWS Wells, ICFAI Dept; 1981  
A Summary of Information Related to the Comprehensive Management of GW Resources in Madison, Monroe, and  
St. Clair Counties, Illinois, November 1983.  
Climatic Atlas of the U.S.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980503221

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER		NO SAMPLES COLLECTED	
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
HNU	No readings above background
Radi-Mini	No readings above background
Explosimeter	0% LEL

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF Ecology + Environment, Region V - FIT <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS Ecology + Environment, Inc. Region V - FIT

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

NONE

VI. SOURCES OF INFORMATION (Give specific references e.g., state files, sample analysis, reports)

Ecology and Environment, Inc. Site Safety Log - 3-4-86  
AMOCO Oil Co Plot Map supplied by Wurte



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980503221

II. CURRENT OWNER(S)

01 NAME Amoco Oil Company	02 D+B NUMBER	03 NAME AMOCO Corp.	09 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD#, etc.) 200 E. Randolph Dr.	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.) 200 E. Randolph Dr.	11 SIC CODE		
05 CITY Chicago	06 STATE IL	07 ZIP CODE 60601	12 CITY Chicago	13 STATE IL	14 ZIP CODE 60601
01 NAME	02 D+B NUMBER	03 NAME	09 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME	02 D+B NUMBER	03 NAME	09 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME	02 D+B NUMBER	03 NAME	09 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (List specific references, e.g., state laws, sample analysis, reports)

Site Inspection Interview with Sumner and Wurtz, 3-4-86



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART B - OPERATOR INFORMATION

I. IDENTIFICATION  
01 STATE | 02 SITE NUMBER  
**IL** | ILD980503221

II. CURRENT OPERATOR (Provide if different from owner)			OPERATOR'S PARENT COMPANY (If applicable)		
01 NAME <b>Amoco Petroleum Additives Company</b>	02 D+B NUMBER	10 NAME <b>Amoco Corp.</b>	11 D+B NUMBER		
03 STREET ADDRESS (P.O. BOX, RFD#, etc.) <b>301 Evans Ave. P.O. Box 182</b>	04 SIC CODE	12 STREET ADDRESS (P.O. BOX, RFD#, etc.) <b>200 E. Randolph Dr.</b>	13 SIC CODE		
05 CITY <b>Wood River</b>	06 STATE <b>IL</b>	07 ZIP CODE <b>62095</b>	14 CITY <b>Chicago</b>	15 STATE <b>IL</b>	16 ZIP CODE <b>60601</b>
08 YEARS OF OPERATION <b>1981-present</b>	09 NAME OF OWNER				
III. PREVIOUS OPERATOR(S) (List most recent first, provide only if different from owner)			PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)		
01 NAME <b>Amoco Oil Company</b>	02 D+B NUMBER	10 NAME <b>Amoco Corp.</b>	11 D+B NUMBER		
03 STREET ADDRESS (P.O. BOX, RFD#, etc.) <b>400 S. Main St.</b>	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.) <b>200 E. Randolph Dr.</b>	13 SIC CODE		
05 CITY <b>Wood River</b>	06 STATE <b>IL</b>	07 ZIP CODE <b>62095</b>	14 CITY <b>Chicago</b>	15 STATE <b>IL</b>	16 ZIP CODE <b>60601</b>
08 YEARS OF OPERATION <b>1908-1950</b>	09 NAME OF OWNER DURING THIS PERIOD <b>Amoco Corp.</b>				
01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)	13 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				
01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)	13 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Site Inspection Interview with Sumner and Wurtz, 3-4-86



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE <b>IL</b>	02 SITE NUMBER <b>ILD980503221</b>
-----------------------	---------------------------------------

II. ON-SITE GENERATOR

01 NAME <b>Amoco Oil Company</b>	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD#, etc.) <b>400 S. Main St.</b>	04 SIC CODE	
05 CITY <b>Wood River</b>	06 STATE <b>IL</b>	

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
C1 NAME	02 D+B NUMBER	C1 NAME	02 D+B NUMBER		
C2 STREET ADDRESS (P.C. Box, RFD#, etc.)	04 SIC CODE	C3 STREET ADDRESS (P.C. Box, RFD#, etc.)	04 SIC CODE		
C5 CITY	C6 STATE	C7 ZIP CODE	C5 CITY	C6 STATE	C7 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P.C. Box, RFD#, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Site Inspection Interview with Sumner + Wurtz, 3-4-86



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER ILD960503221

II. PAST RESPONSE ACTIVITIES

01  A. WATER SUPPLY CLOSED  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  B. TEMPORARY WATER SUPPLY PROVIDED  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  C. PERMANENT WATER SUPPLY PROVIDED  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  D SPILLED MATERIAL REMOVED  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  E. CONTAMINATED SOIL REMOVED  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  F. WASTE REPACKAGED  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  G. WASTE DISPOSED ELSEWHERE  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  H. ON SITE BURIAL  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  I. IN SITU CHEMICAL TREATMENT  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  J. IN SITU BIOLOGICAL TREATMENT  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  K. IN SITU PHYSICAL TREATMENT  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  L. ENCAPSULATION  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  M. EMERGENCY WASTE TREATMENT  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  N. CUTOFF WALLS  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  O. EMERGENCY DIKING/SURFACE WATER DIVERSION  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  P. CUTOFF TRENCHES/SUMP  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  Q. SUBSURFACE CUTOFF WALL  
04 DESCRIPTION Amoco has installed a slurry wall, approx. 30-35' in depth, 30" width surrounding the closed 26 acre landfill. Also Refer to S.

02 DATE 1982 03 AGENCY \_\_\_\_\_



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980503221

II. PAST RESPONSE ACTIVITIES (continued)

01  R. BARRIER WALLS CONSTRUCTED  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  S. CAPPING/COVERING

02 DATE 1982 03 AGENCY

04 DESCRIPTION Amoco applied 2 ft. clay cover to closed 26-acre landfill  
Also refer to Q.

01  T. BULK TANKAGE REPAIRED  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  U. GROUT CURTAIN CONSTRUCTED  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  V. BOTTOM SEALED  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  W. GAS CONTROL  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  X. FIRE CONTROL  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  Y. LEACHATE TREATMENT  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  Z. AREA EVACUATED  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  1. ACCESS TO SITE RESTRICTED  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  2. POPULATION RELOCATED  
04 DESCRIPTION

N/A

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

01  3. OTHER REMEDIAL ACTIVITIES  
04 DESCRIPTION

NONE

02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_

III. SOURCES OF INFORMATION (Give specific references, e.g., state files, sample analysis, reports)

Site Inspection Interview with Sumner and Wurtz 3-4-86



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
O1 STATE	O2 SITE NUMBER
IL	ILD980503221

II. ENFORCEMENT INFORMATION

O1 PAST REGULATORY ENFORCEMENT ACTION  YES  NO

O2 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY ENFORCEMENT ACTION

NONE REPORTED

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

N/A

## Immediate Removal Action Check Sheet

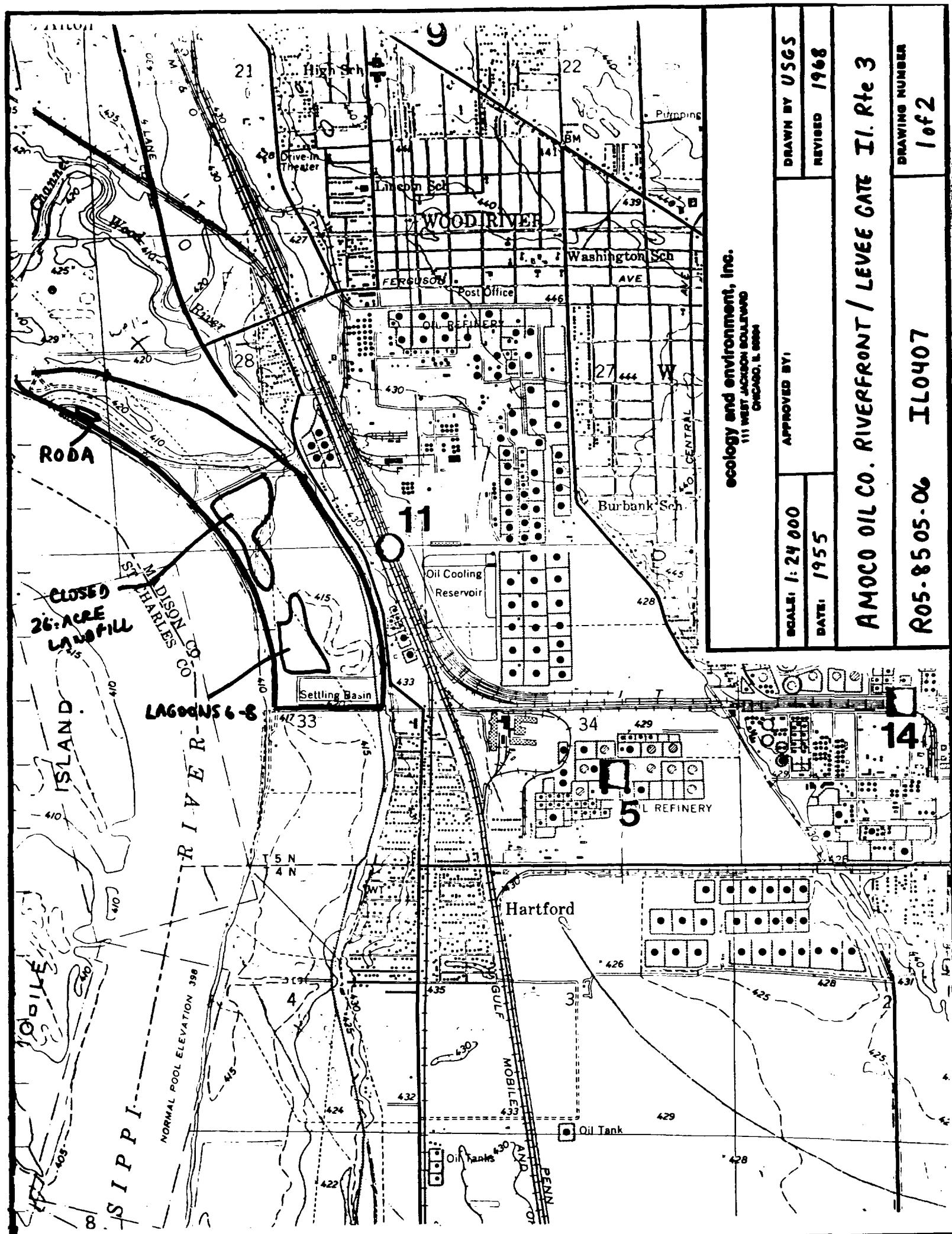
	High	Moderate	Low
<u>Fire and Explosion Hazard</u>			
Flammable Materials	N/A		
Explosives	N/A		
Incompatible Chemicals	N/A		
<u>Direct Contact with Acutely Toxic Chemicals</u>			
Site Security	Good		
Leaking Drums or Tanks	NONE		
Open Lagoons or pits			✓
Materials on Surface			✓
Proximity of Population			✓
Evidence of Casual Site Use	NONE		
<u>Contaminated Water Supply</u>			
Exceeds 10 Day Snarl	N/A		
Gross Taste or Odors	N/A		
Alternate Water Available	NO		
Potential Contamination	YES		✓
Is the site <u>abandoned</u> or active?			

## Comments

Disposal area consisting of closed 26-acre landfill, RODA, +  
lagoons 6-8 are inactive + no longer used for waste disposal.

City of Wood River plans to use Lagoons 6-8 in conjunction with WWTP as surge ponds.





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DATE 3/4/86TIME 1:05 A.M. (P.M.)DIRECTION:  N NNE NE ENE  
E ESE SE SSE  
S SSW SW WSW  
W WNW NW NNWWEATHER overcast,40° FSITE Amoco, RiverfrontTDD# R05-8505-06

PHOTOGRAPHED BY:

R. Bock

SAMPLE ID# (if applicable)

N/ADESCRIPTION: North view of old RODA siteDATE 3/4/86TIME 1:05 A.M. (P.M.)DIRECTION: N NNE NE ENE  
E ESE SE SSE  
 S SSW SW WSW  
W WNW NW NNWWEATHER overcast,40° FSITE Amoco RiverfrontTDD# R05-8505-06

PHOTOGRAPHED BY:

R. Bock

SAMPLE ID# (if applicable)

N/ADESCRIPTION: South view of old RODA site

DATE 3/4/86TIME 1:30 A.M. P.M.DIRECTION: N NNE NE ENE  
E ESE SE SSE  
S SSW SW WSW  
W WNW NW NNWWEATHER overcast

40° F

SITE Anasco RiverfrontTDD# R05-PSOS-06

PHOTOGRAPHED BY:

R. Bock

SAMPLE ID# (if applicable)

N/ADESCRIPTION: south view of closed landfillDATE 3/4/86TIME 1:50 A.M. P.M.DIRECTION: N NNE NE ENE  
E ESE SE SSE  
S SSW SW WSW  
W WNW NW NNWWEATHER overcast

40° F

SITE Anasco RiverfrontTDD# R05-PSOS-06

PHOTOGRAPHED BY:

R. Bock

SAMPLE ID# (if applicable)

N/ADESCRIPTION: west view of lagoons 1 and 2

DATE 3/4/86TIME 1:55 A.M. (P.M.)DIRECTION: N NNE NE ENE  
E ESE SE SSE  
S SSW SW WSW  
W WNW NW NNWWEATHER overcast40° FSITE Amoco RiverfrontTDD# R05-8505-06

PHOTOGRAPHED BY:

R. Bock

SAMPLE ID# (if applicable)

N/ADESCRIPTION: southwest view of Lagoons 3+4; berm in rear separates 3 and 4 from  
orange water ponds 6-8.DATE 3/4/86TIME 1:55 A.M. P.M.DIRECTION: N NNE NE ENE  
E ESE SE SSE  
S SSW SW WSW  
(W) WNW NW NNWWEATHER overcast40° FSITE Amoco RiverfrontTDD# R05-8505-06

PHOTOGRAPHED BY:

R. Bock

SAMPLE ID# (if applicable)

N/ADESCRIPTION: Nwest view of Lagoon 5, currently being made ready  
for landfilling of stabilized sludge from lagoons 3+4.

DATE 3/4/86TIME 1:58 A.M. P.M.

DIRECTION: N NNE NE ENE  
E ESE SE SSE  
S SSW SW WSW  
W WNW NW NNW

WEATHER overcast40° FSITE Amoco RiverfrontTDD# R05-8505-06

PHOTOGRAPHED BY:

R. Back

SAMPLE ID# (if applicable)

N/A

DESCRIPTION: West view of Lagoon 5. Cell completed with liners to accept stabilized sludge from Lagoons 1-4.

DATE 3/4/86TIME 2:00 A.M. P.M.

DIRECTION: (N) NNE NE ENE  
E ESE SE SSE  
S SSW SW WSW  
W WNW NW NNW

WEATHER overcast40° FSITE Amoco RiverfrontTDD# R05-8505-06

PHOTOGRAPHED BY:

R. Back

SAMPLE ID# (if applicable)

N/A

DESCRIPTION: north view of surge ponds 6,7 and 8 - WWTP surge currently

DATE 3/4/86TIME 2:00 A.M. P.M.

DIRECTION: N NNE NE ENE  
E ESE SE SSE  
S SSW SW WSW  
W WNW NW NNW

WEATHER overcast40° FSITE AMOLO RIVERFRONTTDD# A05-8505-06

PHOTOGRAPHED BY:

R. Back

SAMPLE ID# (if applicable)

N/ADESCRIPTION: northwest view of surge lagoon 6, 7 and 8.

DATE \_\_\_\_\_

TIME \_\_\_\_\_ A.M. P.M.

DIRECTION: N NNE NE ENE  
E ESE SE SSE  
S SSW SW WSW  
W WNW NW NNW

WEATHER \_\_\_\_\_

PHOTO

SITE \_\_\_\_\_

TDD# \_\_\_\_\_

PHOTOGRAPHED BY:

SAMPLE ID# (if applicable)

DESCRIPTION: \_\_\_\_\_

# SDMS US EPA Region V

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MAP OF AMOCO OIL CO.

Document is available at the EPA Region 5 Records Center.

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